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fieldbus queue

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## Patents

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### Method and apparatus for instruction **queue** compression

US Pat. 6185672 - Filed Feb 19, 1999 - Advanced Micro Devices, Inc.

This configuration may be used to determine output 450, which indicates whether instruction **queue** will be full after accepting instructions that have ...

### Rapid selection of oldest eligible entry in a **queue**

US Pat. 6247114 - Filed Feb 19, 1999 - Advanced Micro Devices, Inc.

A microprocessor comprising: an instruction **queue** configured to receive and store 65 instructions, wherein each instruction has an eligibility signal ...

### Instruction **queue** evaluating dependency vector in portions during different clock phases

US Pat. 6308259 - Filed Jul 25, 2000 - Advanced Micro Devices, Inc.

Additionally, the second dependent ROP is evaluated in first storage 90C of instruction **queue** 36B, and the corresponding request signal is asserted ...

### Using multiple decoders and a reorder **queue** to decode instructions out of order

US Pat. 6192465 - Filed Sep 21, 1998 - Advanced Micro Devices, Inc.

... and a decode reorder **queue** coupled to said first and second decoders, wherein said decode reorder **queue** comprises a plurality of storage locations, ...

### Method and apparatus for local and distributed data memory access ("DMA") control

US Pat. 7058735 - Filed Jun 2, 2003 - Emulex Design & Manufacturing Corporation

New messages must start at offset 0 inside the **queue** space. ... Message **Queue** Addresses. Each message **queue** 2020-20231 on the chip 10 may have its own ...

### Local emulation of data RAM utilizing write-through cache hardware within a CPU module

US Pat. 6880047 - Filed Mar 28, 2003 - Emulex Design & Manufacturing Corporation

New messages must start at offset 0 inside the **queue** space. ... The data from any write transaction to an address in the message **queue** range 2020-20231 may ...

### System for implementing a register free-list by using swap bit to select first or second register tag in retire **queue**

US Pat. 6425072 - Filed Aug 31, 1999 - Advanced Micro Devices, Inc.

... **queue** ...

### Hardware assisted firmware task scheduling and management

US Pat. 6912610 - Filed Mar 28, 2003 - Emulex Design & Manufacturing Corporation

example a completion message would reside in the respective message **queue** 2020-20231 before the DMA is completed and it would not be "delivered" to the ...

### METHOD FOR EFFICIENT BUFFER TAG ALLOCATION

US Pat. 7107367 - Filed Aug 12, 2003 - Advanced Micro Devices

For example, di transaction **queue** 28 may retain the tag value until ... Request **queue** 220 may be FIG. 3 is a block diagram of one embodiment of bus ...

### System for store to load forwarding of individual bytes from separate store buffer entries to form a single load word



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fieldbus diagnostics

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## Patents

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### Hand held diagnostic and communication device with automatic bus detection

US Pat. 6629059 - Filed Mar 12, 2002 - Fisher-Rosemount Systems, Inc.

Further, with respect to FOUNDATION™ 30 **Fieldbus diagnostics**, device 22 is capable of measuring the amplitude of **Fieldbus** signal strength and isolate it to ...

### Wireless diagnostic system in industrial processes

US Pat. 7058542 - Filed Jul 4, 2001 - Metso Automation Oy

Remote **diagnostics** modules 1 of the invention, placed on top of pumps 2, ... the network to H1 **Fieldbus**-type field bus blocks 27 of a rate of 31.25 kbps. ...

### Root cause diagnostics

US Pat. 7085610 - Filed Oct 5, 2001 - Fisher-Rosemount Systems, Inc.

"**Fieldbus** Standard for Use in Industrial Control Systems Part 2: Physical Layer ... Parallel, Fault-Tolerant Control and **Diagnostics** System for Feedwater ...

### Flow diagnostic system

US Pat. 6907383 - Filed May 9, 2001 - Rosemount Inc.

"**Fieldbus** Standard for Use in Industrial Control Systems Part 2: Physical Layer ... LFM/SIMA Internet Remote **Diagnostics** Research Project Summary Report, ...

### Flow measurement with diagnostics

US Pat. 6654697 - Filed Aug 27, 1999 - Rosemount Inc.

Parallel, Fault-Tolerant Control and **Diagnostics** System for Feedwater ...

"**Fieldbus** Standard for Use in Industrial Control System Part 2: Physical Layer ...

### Diagnostics for industrial process control and measurement systems

US Pat. 6859755 - Filed May 14, 2001 - Rosemount Inc.

In **fieldbus**, each device draws a 50 substantially constant current I ...

**Fieldbus** communication signaling is effected by causing the device to modulate the ...

### Data transmission method for a multi-protocol handheld field maintenance tool

US Pat. 7027952 - Filed May 16, 2003 - Fisher-Rosemount Systems, Inc.

15 Preferably, the **Fieldbus** measurement circuits 32 provide additional measurement **diagnostics** for an operating net-work or process control loop. ...

### Process device diagnostics using process variable sensor signal

US Pat. 6601005 - Filed Jun 25, 1999 - Rosemount Inc.

AI 7/ Fehlerdiagnose in lokalen Netzen, by Jürgen M. Schro- 0 622 AI/ "Fault Diagnosis of **Fieldbus** Systems," by Jürgen Quade, 0 413 814 AI 2/ pp. ...

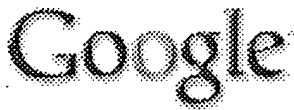
### Remote diagnostics in a process control network having distributed control functions

US Pat. 6014612 - Filed Oct 2, 1997 - Fisher Controls International, Inc.

Before discussing the details of the remote **diagnostics** of the present invention, a general description of the **Fieldbus** protocol, field devices configured ...

### Local device and process diagnostics in a process control network having distributed control functions

US Pat. 5970430 - Filed Sep 3, 1997 - Fisher Controls International, Inc.



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fieldbus diagnostic tool

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## Patents

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### Diagnostic expert in a process control system

US Pat. 6633782 - Filed Feb 7, 2000 - Fisher-Rosemount Systems, Inc.

In one embodiment, 45 the **diagnostic tool** 52 analyzes or reviews the 6th bit of the block error parameter (in the **Fieldbus** protocol) to detect when a device ...

### Diagnostics in a process control system

US Pat. 6298454 - Filed Feb 22, 1999 - Fisher-Rosemount Systems, Inc.

While the **diagnostic tool** 52 has been described as being used in conjunction with **Fieldbus** and standard 4-20 ma 65 devices, it can be implemented using any ...

### Diagnostics in a process control system

US Pat. 6557118 - Filed Mar 8, 2001 - Fisher Rosemount Systems Inc.

20 While the **diagnostic tool** 52 has been described as being used in conjunction with **Fieldbus** and standard 4-20 ma devices, it can be implemented using any ...

### Diagnostics in a process control system which uses multi-variable control techniques

US Pat. 6615090 - Filed Feb 7, 2000 - Fisher-Rosemont Systems, Inc.

While the **diagnostic tool** 52 has been described as being used in conjunction with **Fieldbus** and standard 4—20 ma devices, it can be implemented using any ...

### FIELD MAINTENANCE TOOL

US Pat. 7117122 - Filed Dec 9, 2004 - Fisher

I **FIELD MAINTENANCE TOOL** The present application is a divisional ... 4 is a flow diagram of a first FOUNDATION™ **fieldbus** specific **diagnostic** method in ...

### Intrinsically safe field maintenance tool

US Pat. 6889166 - Filed Dec 5, 2002 - Fisher-Rosemount Systems, Inc.

within **tool** 22 permits a user to skip the poll of all addresses executed in ...

5 is a flow diagram of a second FOUNDATION™ **fieldbus** specific **diagnostic** ...

### Hand held **diagnostic** and communication device with automatic bus detection

US Pat. 6629059 - Filed Mar 12, 2002 - Fisher-Rosemount Systems, Inc.

SUMMARY OF THE INVENTION A hand-held communication and **diagnostic tool** is ... **fieldbus** process communication loop and is coupled to field devices 20, ...

### Movable lead access member for handheld field maintenance tool

US Pat. 7039744 - Filed May 16, 2003 - Fisher-Rosemount Systems, Inc.

Handheld communication and **diagnostic** device 22 is 20 coupled to loop 18 as ... To meet this requirement, the FOUNDATION™ **Fieldbus** physical layer circuit ...

### Intrinsically safe field maintenance tool with removable battery pack

US Pat. 6925419 - Filed May 16, 2003 - Fisher-Rosemount Systems, Inc.

Apractical implementation was specified by the **Fieldbus** Foundation (FF). ... **tool** also facilitates a convenient display of **diagnostic** informa-tion from ...

### Flow **diagnostic** system

US Pat. 6907383 - Filed May 9, 2001 - Rosemount Inc.